

NEW METALLIZED PROGRAM PAPER AND "HOT-TIP" STYLUS CUTS PROGRAM CHART DRAWING TIME, INCREASES ACCURACY

Exclusive Research, Incorporated metallized program paper† is now available for use with all models of DATA-TRAK® programmers and PREKORDER™* programmer recorders. Programs for these electrostatic curve-following instruments are prepared quickly and easily by simply "drawing" desired curves on the metallized surface of the new program paper with a Hot-Tip Stylus. Other advantages of the new metallized paper include optimum program accuracy and permanency.

†Metallized mylar for even greater durability is also available.

FAST PROGRAM PREPARATION

The speed and ease of preparation enables programs to be placed in operation just minutes after coordinate curve-data has been established. A program is prepared with the aid of standard drafting triangles and curves, and a Hot-Tip Stylus. The stylus removes a fine line of metal from along the desired program curve, exposing sharply contrasting red backing-paper which permits easy visual inspection of curve quality.

No technical skill or experience is required — just place the metallized chart paper on a clean, smooth surface and draw program curve with the new Hot-Tip Stylus, just as you would with an ordinary lead pencil.

EXCELLENT FOLLOW ACCURACY

To follow a program curve, a DATA-TRAK® or PREKORDER* probe must detect a signal voltage which indicates its displacement from the center of the curve, and transmit it to servo circuits which effect proper correction. The width of a program curve is a prime factor in determining the width of the proportionl-band-of-control of either of these instruments. Since curves can be readily drawn to less than .010 of an inch wide on the metallized paper with the Hot-Tip Stylus, a very tight band of control is established, providing optimum curve-following accuracy.

PERMANENT PROGRAM

Since the curve-following probe of all DATA-TRAK® and PREKORDER* models does not directly contact the metallized paper, chart wear is minimized, enabling programs to be stored and re-used indefinitely.

*Trade Marks of Research, Incorporated, Minneapolis, Minn.

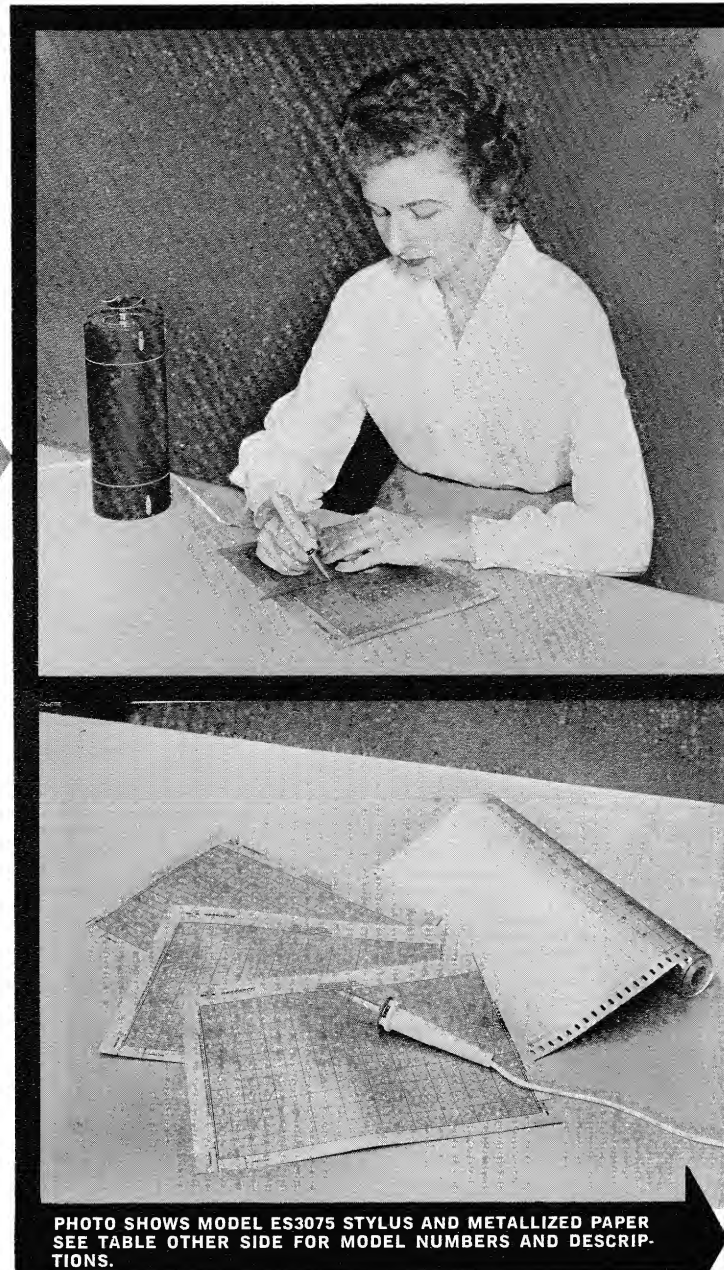
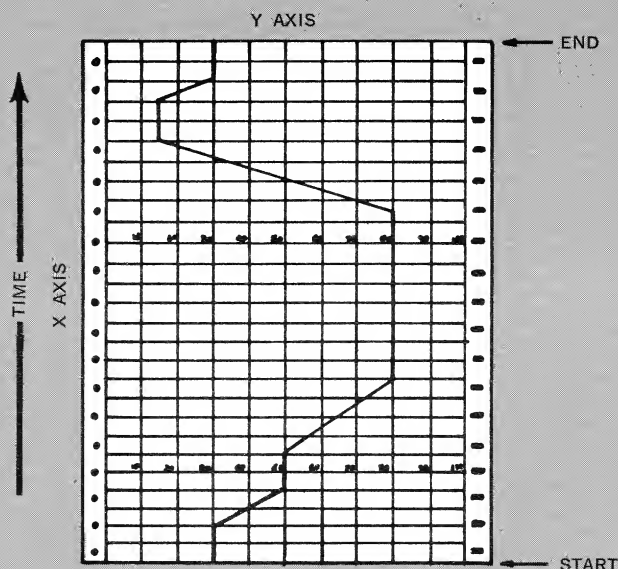


PHOTO SHOWS MODEL ES3075 STYLUS AND METALLIZED PAPER
SEE TABLE OTHER SIDE FOR MODEL NUMBERS AND DESCRIPTIONS.

PROGRAM COORDINATES

The metallized program paper is scaled to provide reference lines for both X and Y coordinates. The Y axis of all charts represents the specific range of variability of a selected parameter (load, displacement, temperature, etc.); the X axis of the charts represents time, and is scaled as noted in the table below.

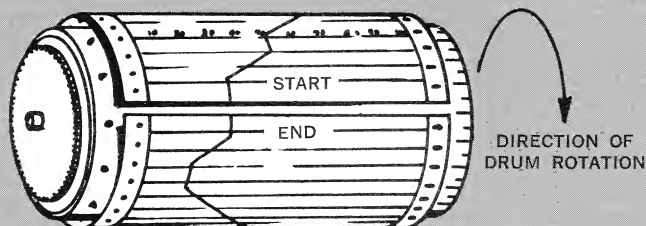
PLOTTING PROGRAM



The program must be plotted in a manner which initiates and terminates the curve at identical levels on the Y axis of the chart if continuous drum rotation is anticipated.

Programs may be corrected by filling in undesired portions of a curve with a soft graphite pencil, and then redrawing the curve with a Hot-Tip stylus.

MOUNTING CHART



The chart must be wrapped around the outer surface of the program drum with its opposite ends meeting to form a butt-joint, which is then taped together to secure the chart in position.

Instruments utilizing punched metallized paper are equipped with locating pins (sprockets) to assure precise alignment of program chart on drum. Other instruments have scribed index lines on their drums with which the index lines on the chart must be matched to effect proper alignment.

METALLIZED-PAPER TYPES and SPECIFICATIONS

Number and Type	For Use With DATA-TRAK® Model	Stock Size	Program Area	Linear Scale Divisions •	
				Y Axis	X Axis
MSR35-1010 unpunched	FGE 5035	8½" x 11" sheets	7" x 10"	100	200
MCR48-1010 unpunched	FGE 5048	8½" x 13½" sheets	7" x 12½"	100	200
MMCR10-R5000 punched† MYLAR**	FGE 5110	12¼" x 50' rolls	11" x 13½"	100	27*

With DATA-TRAK® equipped with strip-chart adaptor, programs up to 20 feet in length may be utilized (see Data Sheet number 502.15).

• Other scales available by special request.

†May also be used on Model 5052S PREKORDER* and Model FGE5124 STATA-TRAK.*

**DuPont Trademark for its polyester film.

**Use Program Stylus PS 53 with Metallized Mylar

To order HOT TIP STYLUS, specify part no. ES3075

To order PROGRAM STYLUS for metallized Mylar, specify part number PS 53.

*Trade Marks of Research, Incorporated, Minneapolis, Minn.



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A DIVISION OF RESEARCH, INCORPORATED
P.O. BOX 6164, MINNEAPOLIS, MINNESOTA 55424

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Thank you for your interest in our products and services. Our representative in your area is:

TEK-SEL, INCORPORATED
19 Locust Place
Rochelle Park, New Jersey 07662
Telephone: 201 843-3210

A business card is attached for your convenience in filing. Please contact our representative if you need further information or prices.



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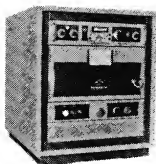
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TEAR OFF HERE

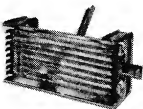
OVER



THERMAC—High response Solid State—Temperature Control combined with proportional Ignitron Power Regulation. Power capacity from 50 amps. to 800 amps. 240, 400 or 600 volts. Ask for bulletin 501.

RADIANT HEATING—

Complete line of Infrared Heating Reflector Modules, Specimen Furnaces, Custom Test Chambers and type T-3 Tungsten-filament Quartz Lamp Supports. Ask for bulletin 504.



DATA-TRAK—Curve-following Programmer. Converts stylus-drawn curve on metalized chart paper to proportional potentiometer output signal. Ask for bulletin 502.

In addition to the products shown above, our services include modular components and complete closed-loop systems for set-point and programmed laboratory and process control of temperature, pressure, radiant and resistance heating, and servo-hydraulic loads. Please contact our representative for full-line information. Additional current products: PRE KORDER Programmer-Controller-Recorder • HOT-BOX Universal Thermocouple Reference Junction • Displacement Transducers • LABAC Solid-State Proportional Power Controller • Heat Exchangers.



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August 16, 1966

Mr. T. Nelson
Systems Consultant
P. O. Box 1546
Poughkeepsie, New York 12603

Dear Sir:

We appreciate your expressing further interest in R-I Controls products.

We are enclosing current information for you concerning each additional product in which you indicated an interest.

A "business card" indicating the name of our technical sales representative in your area is enclosed. Please feel free to call upon him if you would like further data, pricing, or application information.

Most sincerely,

RESEARCH, INCORPORATED

Byron Thomson
Manager, Advertising
and Sales Promotion

BET/ela